CLAIMS

	•	, •	1 .	1 .
The	inver	ition.	claim	ed is

5

15

1. A device comprising:

a network interface for coupling to a network; and
a processor coupled with the network interface, in which the processor is
adapted to

10 establish a VoIP connection;

place the VoIP connection on hold;

determine whether there is return speech from the VoIP connection that has been placed on hold; and

if so, withhold transmitting on-hold music/sound through the VoIP connection.

- The device of claim 1, in which determining is performed by interpreting a VAD ON/OFF event.
- 20 3. The device of claim 1, in which
 the VoIP connection is over a network voice path, and
 determining is performed by:
 monitoring the voice path for return packets; and
 analyzing to determine whether the return packets encode speech.

25

- 4. The device of claim 3, in which analyzing is for speech energy that corresponds to speech sustained for a predetermined time minimum.
- 30 5. The device of claim 1, in which the processor is further adapted to: silence-monitor to determine whether prior return speech has discontinued; and if so, transmit on-hold music/sound through the VoIP connection.

15

- 6. The device of claim 5, in which silence-monitoring is performed by interpreting a VAD ON/OFF event.
- 7. The device of claim 5, in which5 silence-monitoring is performed by interpreting a received SID packet.
 - 8. The device of claim 5, in which
 the VoIP connection is over a network voice path, and
 silence-monitoring is performed by:
 monitoring the voice path for return packets; and
 analyzing to determine whether the return packets encode silence.
 - 9. The device of claim 8, in which analyzing is for speech energy that corresponds to silence sustained for a predetermined time minimum.
 - 10. A device comprising:means for establishing a VoIP connection;means for placing the VoIP connection on hold;
- 20 means for determining whether there is return speech from the VoIP connection that has been placed on hold; and if so, means for withholding transmitting on-hold music/sound through the
- 25 11. The device of claim 10, in which the means for determining includes means for interpreting a VAD ON/OFF event.
- The device of claim 10, in which
 the VoIP connection is over a network voice path, and the means for determining includes:
 means for monitoring the voice path for return packets; and means for analyzing to determine whether the return packets encode speech.

VoIP connection.

- 13. The device of claim 12, in which
 the means for analyzing is for speech energy analyzes for speech sustained for
- a predetermined time minimum.
- 5 14. The device of claim 10, further comprising:

means for silence-monitoring to determine whether prior return speech has discontinued; and

if so, means for transmitting on-hold music/sound through the VoIP connection.

10

- 15. The device of claim 14, in which the means for silence-monitoring includes means for interpreting a VAD ON/OFF event.
- 15 16. The device of claim 14, in which the means for silence-monitoring includes means for interpreting a received SID packet.
 - 17. The device of claim 14, in which
 the VoIP connection is over a network voice path, and
 the means for silence-monitoring includes:
 means for monitoring the voice path for return packets; and
 means for analyzing to determine whether the return packets encode silence.
- 25 18. The device of claim 17, in which the means for analyzing is for speech energy analyzes for speech sustained for a predetermined time minimum.
- 19. An article comprising: a storage medium, the storage medium having30 instructions stored thereon, in which when the instructions are executed by at least one device, they result in:

establishing a VoIP connection; placing the VoIP connection on hold;

determining whether there is return speech from the VoIP connection that has been placed on hold; and

if so, withholding transmitting on-hold music/sound through the VoIP connection.

5

- 20. The article of claim 19, in which determining is performed by interpreting a VAD ON/OFF event.
- The article of claim 19, in which
 the VoIP connection is over a network voice path, and determining is performed by:
 monitoring the voice path for return packets; and analyzing to determine whether the return packets encode speech.
- 15 22. The article of claim 21, in which analyzing is for speech energy that corresponds to speech sustained for a predetermined time minimum.
 - 23. The article of claim 19, in which the instructions further result in: silence-monitoring to determine whether prior return speech has discontinued; and if so, transmitting on-hold music/sound through the VoIP connection.
- The article of claim 23, in which
 silence-monitoring is performed by interpreting a VAD ON/OFF event.
 - 25. The article of claim 23, in which silence-monitoring is performed by interpreting a received SID packet.
- The article of claim 23, in which
 the VoIP connection is over a network voice path, and
 silence-monitoring is performed by:
 monitoring the voice path for return packets; and
 analyzing to determine whether the return packets encode silence.

20

25

27.	The article of claim 26, in which
	analyzing is for speech energy that corresponds to silence sustained for a
predet	ermined time minimum.

5

28. A method comprising:

establishing a VoIP connection;

placing the VoIP connection on hold;

determining whether there is return speech from the VoIP connection that has

10 been placed on hold; and

if so, withholding transmitting on-hold music/sound through the VoIP connection.

- 29. The method of claim 28, in which determining is performed by interpreting a VAD ON/OFF event.
- 30. The method of claim 28, in which
 the VoIP connection is over a network voice path, and
 determining is performed by:
 monitoring the voice path for return packets; and
 analyzing to determine whether the return packets encode speech.
- 31. The method of claim 30, in which analyzing is for speech energy that corresponds to speech sustained for a predetermined time minimum.
- 32. The method of claim 28, further comprising: silence-monitoring to determine whether prior return speech has discontinued; and
- if so, transmitting on-hold music/sound through the VoIP connection.
 - 33. The method of claim 32, in which silence-monitoring is performed by interpreting a VAD ON/OFF event.

- 34. The method of claim 32, in which silence-monitoring is performed by interpreting a received SID packet.
- 35. The method of claim 32, in which
 5 the VoIP connection is over a network voice path, and silence-monitoring is performed by:
 monitoring the voice path for return packets; and analyzing to determine whether the return packets encode silence.
- 10 36. The method of claim 35, in which analyzing is for speech energy that corresponds to silence sustained for a predetermined time minimum.